United States Army

Logistics Transformation Agency

CLOE STRATEGY & IMPLEMENTATO

Toward a Common Logistics Operating Environment (CLOE)

Decision Brief for

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22 Jan 2004

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Purpose – Why We Are Here!

- **Obtain Guidance on CLOE Implementation Process**
- **Obtain Approval of CLOE Implementation Strategy**
  - **Governance**
  - **Organization**
  - **Funding**
  - **Enforcement**
- **Obtain Approval to Initiate Key Implementation Steps**

CSA Focus Areas

- Current to Future Force
- Army Aviation
- The Network

G-4 Focus Areas

- "Connect" Our Logisticians
- Modernize Theater Distribution
- Improve Force Reception
- Integrate the Supply Chain

What is CLOE?

Current Force → Future Force

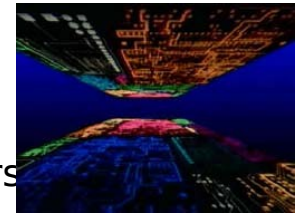
Platform/Soldier Data Requirements

Off-Platform Architecture

5 Sustainment

- **Above BDE**
  - ERP
  - LCOP
  - BCS3
  - National Level
- **BDE & Below**
  - Commanders & SPO
  - GCSS-A/T
  - Current STAMIS
  - Logisticians & Maintainers

Network Enabled



- ✓ Situational Awareness & Situational Understanding for Commanders in Mission Planning
- ✓ Critical platform data for planning and execution
- ✓ Reach as required

Commonality & Interoperability

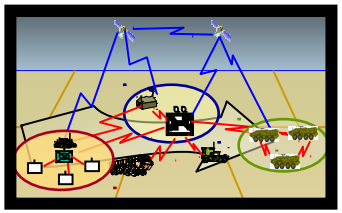
4 Interoperability

3 Commonality

Common Standards, Specifications, Protocols

- Synchronize & Reduce redundant efforts
- Establish Configuration Control
- Business Process baseline for Focused Logistics
- Provide common solutions

Distributed Processing



On-Platform Architecture

2 Integration

1 Synchronization

Embedded Health Management System

- Research
- Design
- Develop
- Test
- Implement

Sensor Based & Linked

CLOE Working Relationships

PM-CAISI
PM-LIS (TLDD, MTS)
PM-MTS
PM-FBCB2
PM-TWV (H,M, L)
PM-TMDE
SBCT PoE
PM-BCT
CLOE OA V1.0

Draft MOAs
CLOE IPT

PS/MRS & LDSS
Complementary Pgms
FCS

Draft MOA

SIL
PA Guard
And
Reserves

Approved Concept

PM-TMDE
PM-CH 47
PM-Comanche
PM-Blackhawk
PM-APACHE
Aviation
CLOE OA V2.0

Draft MOA
CLOE Arch WGs

BCS3 Requirements
GCSS-Army
OA
CASCOM

Approved OA

AAIC
Designated
Logistics Domain
Proponent by
G-6

Domain Working
Group

Combat Support
Watercraft
Air Defense
Other Army
Communities

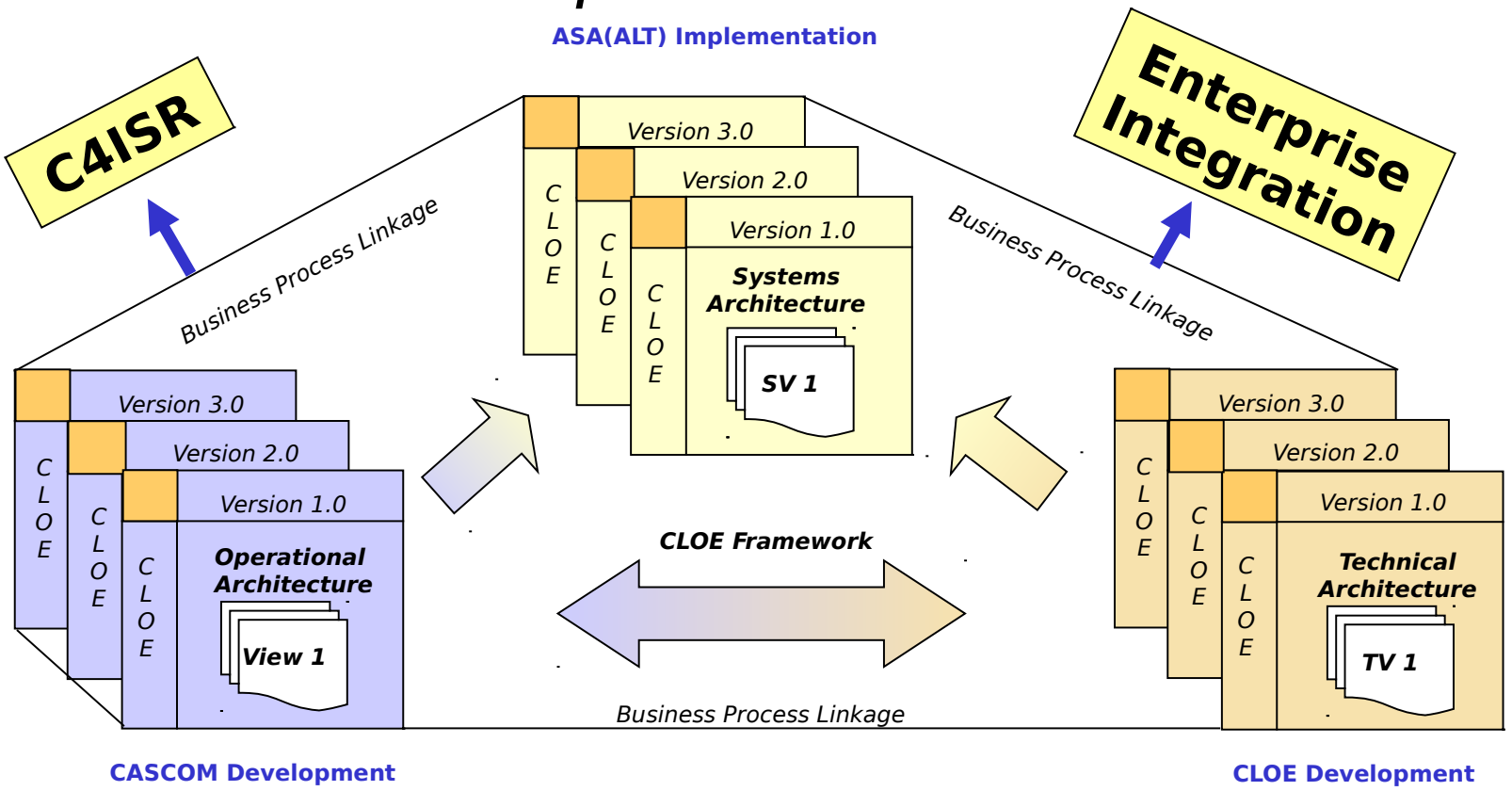
Preliminary
Discussions

LMP
SALE
SASG
AMC
DALEIO

Mapped OA into SALE

CLOE Implementation Strategy

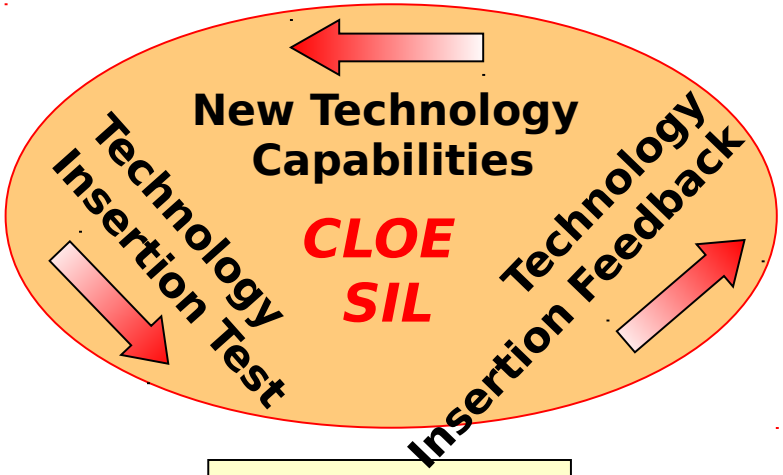
Logistics Transformation Architecture Implementation



Working Relationships and Agreements must be established between the G-4, ASA(ALT), AMC and TRADOC

CLOE SIL – Logistics Transformation Architecture Process

Operational



Technical

CLOE Operational Architecture

New or improved technologies provide new capabilities that are incorporated into the baseline CLOE Operational Architecture.

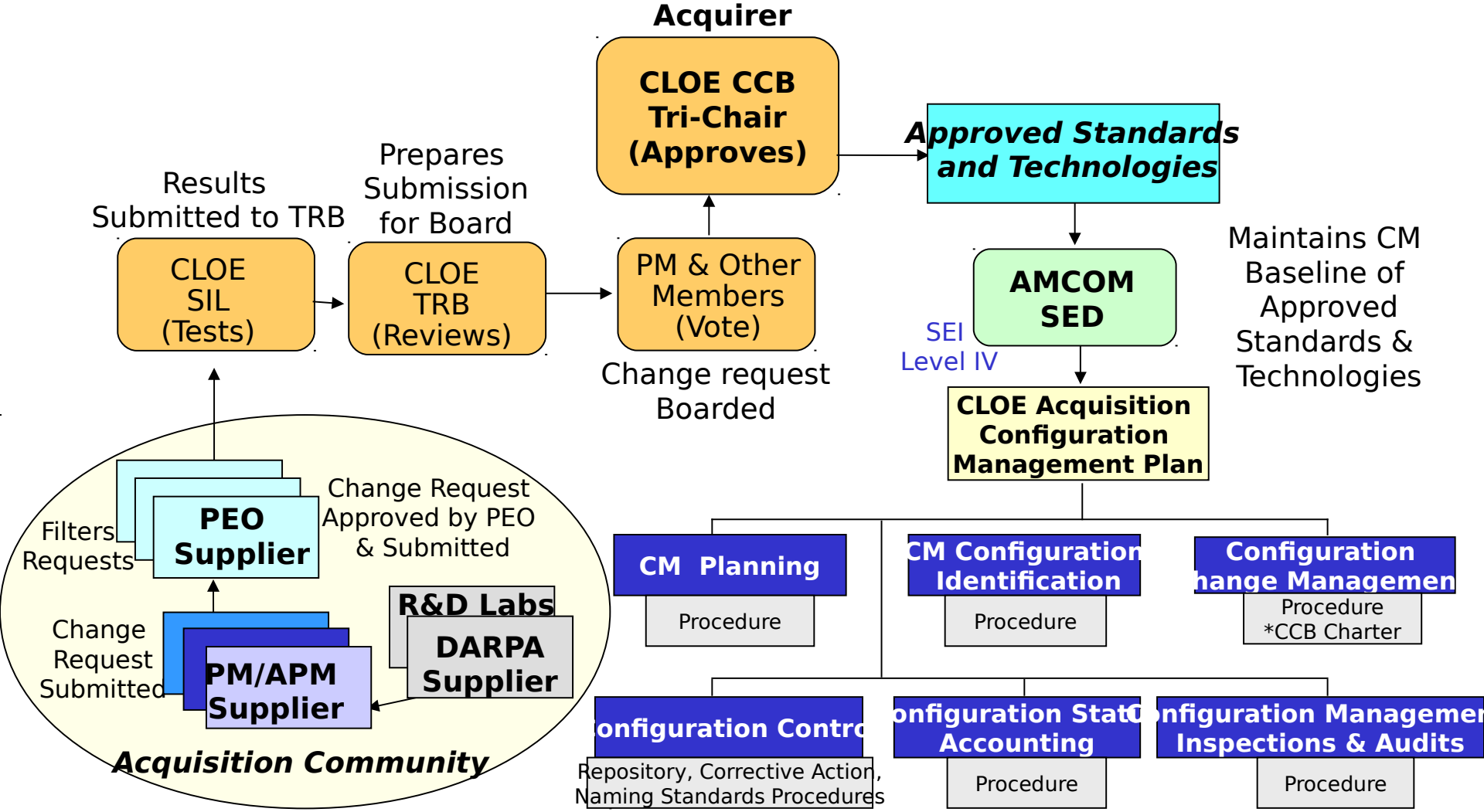
CLOE Technical Architecture

The CCB approves the technology insertions and any new specification or standards required for implementation. Technical Architecture is updated.

CLOE Systems Architecture

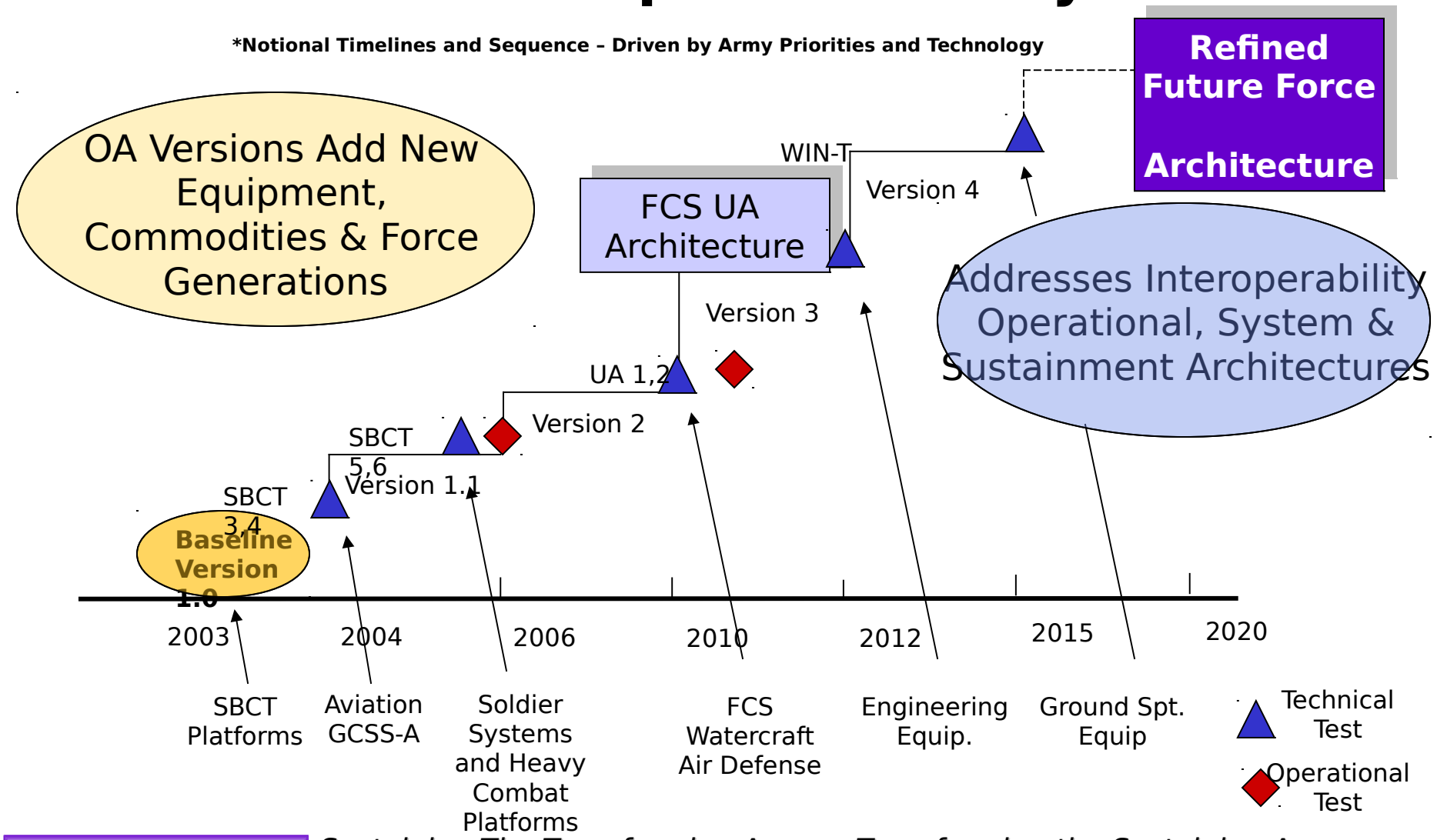
Technologies are tested in the baseline CLOE System Architecture. Test results and feedback are provided to the CLOE CCB.

CLOE CCB Process



CLOE Implementation Continuous Improvement Cycle*

*Notional Timelines and Sequence – Driven by Army Priorities and Technology



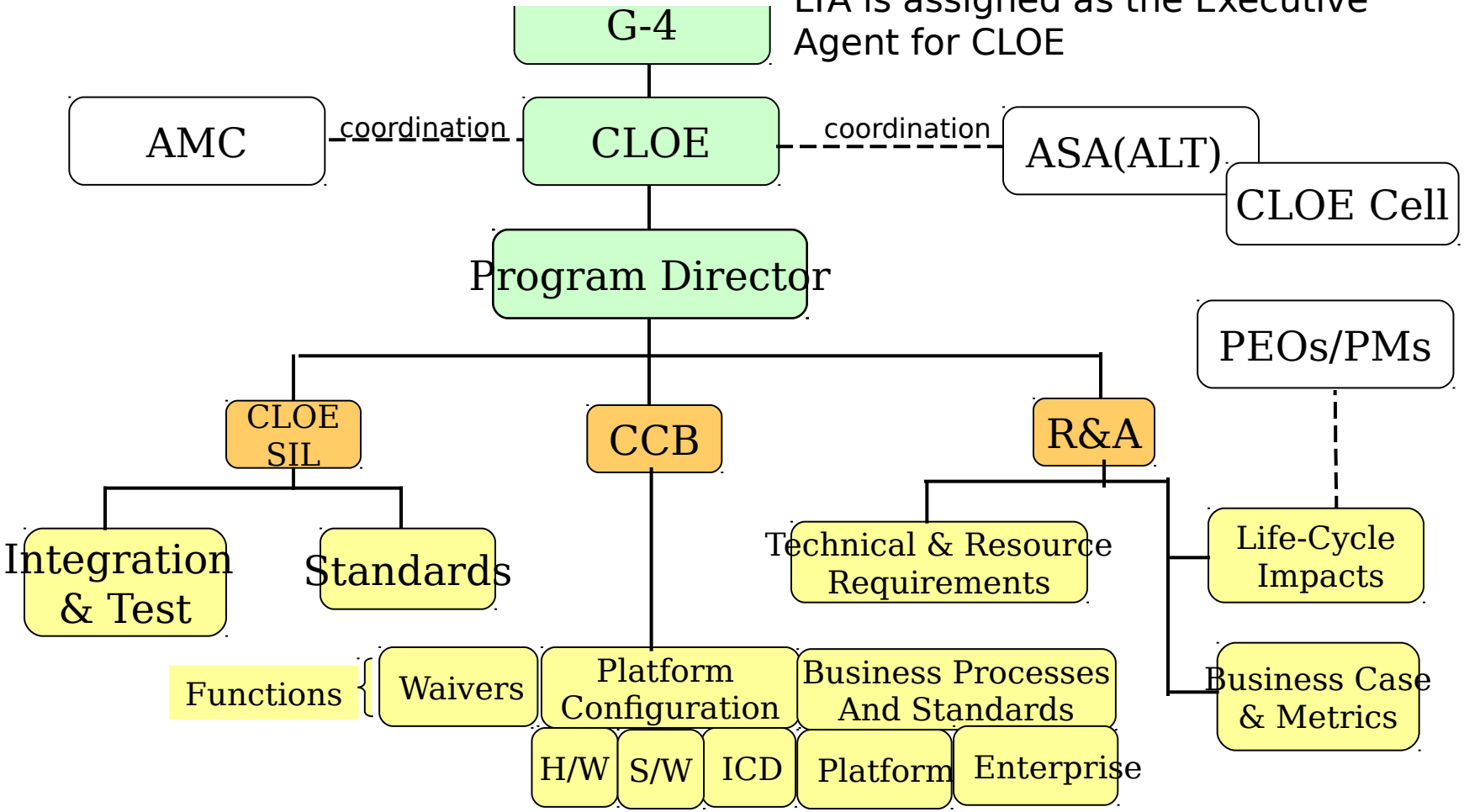
CLOE Governance

CLOE Organizational Concept

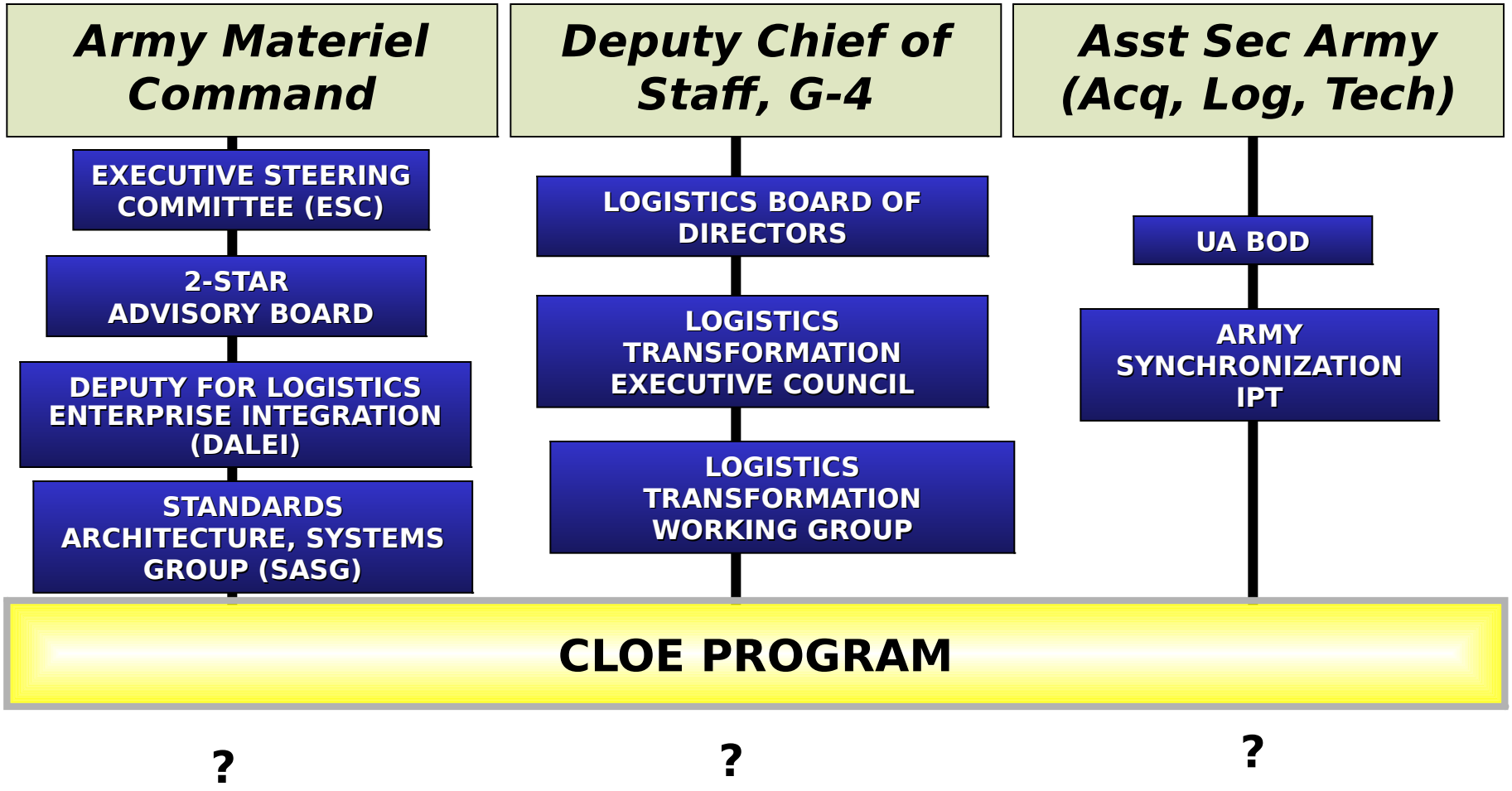
ASA(ALT) Policy:

G-4 is the Responsible Official for Sustainment to *lead, coordinate, and implement* CLOE

LTA is assigned as the Executive Agent for CLOE



CLOE Governance Options



CLOE Governance Options

	PRO	CON
LBOD	▪Domain is Logistics ▪Supports Transformation ▪Specifically Addresses G-4 Focus Areas ▪Expands beyond EI or the Platform ▪G-4 Lead	▪Interfaces with Acquisition Community for Funding and Enforcement More Complex
AMC-ESC	▪Emphasizes Key Role of CLOE in Enterprise Architecture ▪Operational Architecture Requirements Must Map Into Both the SALE Process and GCSS-A	▪Scope broader than EI – Platform, policy, doctrine, BCS3, decision support tools, configuration management, etc.
FCS UA BOD	▪FCS SOSCOE and CLOE Share Similar Platform Information Architecture Requirements ▪Simplifies Interfaces with Acquisition Programs	▪Focus is FCS –CLOE Goes Beyond FCS's Specific Needs –CLOE Addresses Current Force and Interoperability with Future Force Elements

Governance Recommendation

- **No Solution is Perfect. All Require Close Coordination Across Army Communities**
- **ESC and UA BOD Have Narrower Scope than CLOE**
- **G4 is Responsible for Logistics Transformation and CLOE.**

➔**LBOD is the Best Governance Approach for CLOE**

CLOE Enforcement

Enforcement Mechanisms

- **Incorporate CLOE Requirements Into Acquisition Process:**
  - **ASARC/ILS Checklist Review**
  - **Concept Requirements Documents (CRDs)**
  - **Acquisition Strategy**
  - **Test & Evaluation Master Plan**
  - **PMs Balanced Score Card**
- **Formalize ASA(ALT) Policy Memo in Appropriate ARs**
- **Establish Tri-Chair Configuration Control Board (CCB)**
  - **DCS G-4, AMC G-3, ASA(ALT)**
- **CLOE Funding Oversight of POM/Budget Through EE PEG and SS PEG**
- **Publish Configuration Management Guidance to PMs**

FUNDING

CLOE Funding Strategy

- Field CLOE enablers to 1+ brigade-size unit per year
- Follow Unit Set fielding approach
- Give priority to “first to fight” units. Begin With SBCT #4 (FY 06) and proceed to SBCT #3 (FY 11)
- Begin equipment acquisition in FY 05
- Minimize software and hardware costs through the standardization process for the entire force
- Funds provided to individual PMs to develop, acquire, and field CLOE enablers

POM Submission

	FY04	FY05	FY06	FY07	FY08	FY09	FY10
SS PEG	$0.00	$4.5	$15.0	$15.0	$15.0	$15.0	$15.0
EE PEG	$0.00	$4.5	$18.0	$21.6	$26.0	$31.1	$37.3

RECOMMENDATIONS

- **Approve the CLOE Implementation Strategy**
  - **Governance**
  - **Organization**
  - **Funding**
  - **Enforcement**
- **Establish a CLOE Cell within ASA(ALT)**
- **Prepare Joint Memorandum to Logistics and Acquisition Communities**
- **Update Policy to Reflect CLOE Configuration Management**

BACKUP

SS PEG OBJECTIVES

- **Develop and Implement CLOE Architectures**
- **Define, Synchronize, and Prioritize Application Development of Equipment Health Management Technology**
- **Simulate, Test and Validate Technological Capabilities**
- **Stand-up and Begin Operation of a Systems Integration Laboratory (SIL)**
- **Stand-up and Initially Conduct Configuration Control Board (CCB) Activities**
- **Conduct SBCT Proof of Enablers Technical Demonstration**
- **Supports Total Force Concept – AC, RC and NG Operating as an "ARMY of ONE"**
- **Provide Bridge to FCS to Reduce Burden on Other Developmental Efforts**
- **Develop & Implement OA Performance Envelope Expansion to Include Soldier Systems & Aviation**

	FY04 (Millions)	FY05 (Millions)	FY06 (Millions)	FY07 (Millions)	FY08 (Millions)	FY09 (Millions)	FY10 (Millions)	FY11 (Millions)	FY05-11 (Millions)	FY06-11 (Millions)
CLOE SIL & Technical Team Operations										
Computers	$0.3	$0.5	$0.6	$0.6	$0.6	$0.6	$0.6	$0.6	$4.1	$3.6
Facilities	$1.0	$2.0	$2.4	$2.4	$2.4	$2.5	$2.5	$2.5	$16.7	$14.7
Labor	$2.8	$4.6	$4.8	$4.9	$5.0	$5.2	$5.3	$5.4	$35.2	$30.6
SBCT CLOE S/W Enablers Upgrade										
Develop Fieldable versions of S/W	$0.4	$2.5	$3.0	$3.0	$3.0	$3.0	$3.0	$3.1	$20.6	$18.1
Other Current Force Elements										
		$3.0	$3.4	$3.4	$3.4	$3.4	$3.4	$3.5	$23.5	$20.5
FCS Interoperability										
		$0.5	$0.5	$0.5	$0.6	$0.9	$1.4	$1.9	$6.3	$5.8
Field Test and Certfication										
		$0.5	$0.7	$0.9	$1.3	$1.1	$1.0	$1.1	$6.6	$6.1
Total	**$4.5**	**$13.6**	**$15.4**	**$15.7**	**$16.2**	**$16.7**	**$17.2**	**$18.1**	**$112.9**	**$99.3**

EE PEG OBJECTIVES

- **Fields One+ Brigade "Size" Unit of Action per Year**
- **Priority is Given to Equipping the Stryker Brigades Beginning with Unit Set #4 (FY 06) and Ending with Unit Set #3 (FY 11)**
- **To Maintain this Schedule, Equipment Acquisition must Begin in FY 05**
- **Funding Allows for Acquiring a Limited Amount of Health Management Equipment for the Current Force. Priority Given to "First to Fight" Units**
- **Software and Hardware Costs will be Minimized through the Standardization Process for the Entire Force**

	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY05-11	FY06-11
	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)	(Millions)
Hardware Installation/Retrofits										
Platforms		$4.0	$15.0	$18.4	$22.8	$28.3	$34.7	$42.4	$165.6	$161.6
Fielding & Training										
		$0.5	$3.0	$3.2	$3.2	$2.8	$2.8	$2.5	$18.0	$17.5
Total	**$0.0**	**$4.5**	**$18.0**	**$21.6**	**$26.0**	**$31.1**	**$37.4**	**$44.9**	**$183.5**	**$179.0**